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Notice of Allowability	Application No.	Applicant(s)
	09/299,659	TERADA ET AL.
	Examiner Chieh M Fan	Art Unit 2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the amendment filed 8/6/04.
2. The allowed claim(s) is/are 2-5,8 and 9.
3. The drawings filed on 30 June 2003 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 04142004
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael E. Forgarty on 09/03/04.

The application has been amended as follows:

In the claims:

- a. In claim 9, line 3, "the edge" has been changed to --- the first edge ---.
- b. In claim 9, line 6, "the edge" has been changed to --- the second edge ---.

Statement of Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Regarding claim 2, the prior arts of record, alone or in combination, do not teach the limitation, "the delay means comprises a comparator for comparing an edge of the clock signal, on which the data signal is intended to be latched, to one of a leading edge and a trailing edge of the data signal; and a delay circuit for defining the delay time based on a result of comparison performed by the comparator, and wherein the delay

means defines the delay time such that an edge of the clock signal, on which the data signal is intended to be latched and which is included within a transition interval of the data signal, is delayed to a point in time after the transition interval of the data signal is over".

Regarding claims 3 and 5, the prior arts of record, alone or in combination, do not teach the limitation, "wherein the delay means comprises: a comparator for comparing an edge of the clock signal, which has not been subject to a delay, and on which the data signal is intended to be latched, to one of a leading edge and a trailing edge of the data signal during each cycle of said clock signal; and a delay circuit for defining a first delay time based on a result of a first comparison between the clock signal and the leading edge of the data signal and a second delay time based on a result of a second comparison between the clock signal and the trailing edge of the data signal, said first comparison and said second comparison being performed by the comparator."

Regarding claims 4, 8 and 9, the prior arts of record, alone or in combination, do not teach the limitation, "a first delay circuit for defining the delay time for a logically high state of the data signal based on a result of comparison, performed by the comparator, between one of the leading edges of the data signal and a first edge of the clock signal; a second delay circuit for defining the delay time for a logically low state of the data signal based on a result of comparison, performed by the comparator, between one of the trailing edges of the data signal and a second edge of the clock signal; and a selector for selecting the delay time defined by the first delay circuit when the data

signal is in the logically high state or the delay time defined by the second delay circuit when the data signal is in the logically low state."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M Fan whose telephone number is (703) 305-0198. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM, Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.


Chieh M Fan
Primary Examiner
Art Unit 2634

cmf
September 3, 2004